# GUNSERVATION

(Continued from Page Nine.)

years, under the direction of the Territorial government. At the present reserves is 444,116 acres, or about onetenth of the total area of the Territo increase the area so set apart.

tion does not enter, the Hawaiian for- tory. est has commercial value, and is being systematically exploited. The principal the following recommendations: products are ohia lehua railroad ties and koa lumber-in the trade called rich-colored hardwood, of value for interior finish and cabinet work.

carried on by technically trained men, by the U. S. Geological Survey. Hawaii being one of the eleven States of the Union to employ a professional such cooperative agreements, the appro-

be kept permanently under forest there would serve as a basis for a later and are considerable areas that with the more extended study of the problems application of water could unquestion of reclaiming the many thousand acres pally for cattle grazing. In the aggre- opment. gate it includes many thousand acres. the present need is for a thorough and their interest and support. careful study by experts. It should Second. That there should be underfirst be ascertained how much of this taken under the auspices of the Terriclass of land can be brought under irri- torial government a careful and thorgation and second for what purposes ough classification of the public lands lands it is best adapted if an adequate water of the Territory, with especial refersupply were once assured. This indi- ence to the adaptability of those not cates that along with a hydrographic now under cultivation for use in the survey there should also be a soil sur- development of diversified industries. vey and a systematic classification of it is best adapted. Such investigations to prospective settlers and others appave the way for the incoming of the propriate action be taken to secure the

In addition to the lands that can be ture, comparatively recent lava flows. Much large measure on making the agriculare probably susceptible of being turned to useful account. A systematic elassification of all lands would be a long step in this direction.

Organization and Work of the Com-

sion of Hawaii was appointed by Gov- principal and secondary roads. ernor Frear on July 23rd, 1908. Upon was decided to take up the invstiga- tician. tion through committees, as follows: Forests: Messrs. Hosmer and Gart-

and Dillingham.

The several committees at once set about getting statistics and other in establish diversified industries in the cially. formation. Some of these data are sub- Territory. mitted herewith in the form of appendices. Other data are not as yet in shape to be given out but will form the subject of a later report. The state-

only and subject to amplification. It is perhaps not surprising that it has taken longer to collect accurate infermation concerning the natural resources of the Territory and their present condition than was at first naticipated. Many of the figures essential to such a compilation were found not to be available or only obtainable after extended inquiry. This condition has brought home to the Commission the extreme desirability of having in Hawaii some Territorial official charged with the duty of compiling statistics. On almost all the lines of inquiry before

## Scott's Emulsion

the Commission it should be possible

to get facts and figures but as it is

clothes the nerves and muscles with warm fat, fills the veins with rich blood.

It makes children rugged and hardy and fearless of the cold. It fills the whole body with warmth and life and energy.

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Send this advertisement, together with name of cents to cover postage, and we will send you a "Complete Handy Atlas of the World" :: rests in the water that can be got from them. Those of the latter class, the of the commercial class have yet been them. Those of the latter class, the of the commercial class have yet been to the commercial clas

imilar data valuable information on cover is intimate and peculiarly direct. available for instant reference.

#### Recommendations.

As a result of the study that has so time the total area of existing forest, far been made the Territorial Conservation Commission of Hawaii is unanimously of the opinion that for the tory. Later it is expected considerably best interests of the Territory there is urgent need of action looking to the where the question of stream protec- of the natural resources of the Terri-

First. That active steps be taken to secure from the Territorial Legislature Hawaiian Mahogany-a fine grained, at its coming session an appropriation led to a strong public sentiment in topographic and hydrographic survey The forest work of the Territory is of the Territory of Hawaii, to be made

priation should be made contingent on

It is further recommended that this It would appear that much of it is sus- project be brought to the attention of intensive form of agriculture. Hereagain | Washington in such a way as to attract |

Third. That further to make availhome and build up a self-sustaining in- conducted by the Bureau of Soils of the United States Department of Agricul-

land transportation be emphasized.

In Hawaii there are no internal waterways to assist in transportation. Consequently it is the more necessary that adequate appropriations be made by the Territorial and local authorities The Territorial Conservation Commis- for the building and upkeep of the

Fifth. That an appropriation be sethe organization of the Commission at cured at the coming session of the a meeting held on July 31st, 1908, it Legislature for a Territorial Statis-

Such an official should properly be attached to one of the existing departments. The salary should be sufficient Waters: Messrs. Gartley and W. O. to secure the services of a capable person and provision should be made for Lands and Soils: Messrs. J. G. Smith a certain amount of clerical assistance. Sixth. That a systematic attempt be made to develop and more firmly to

To this end the Hawaii Experiment Station should receive not only the moral but the financial support of the Territory, in order that it may enlarge ments made in the appendices, while the scope of its work, particularly in accurate as far as they go are there- the way of establishing local demon fore to be considered as preliminary stration areas.

Very respectfully, (Signed) RALPH S. HOSMER, WILLIAM O. SMITH, A. GARTLEY, W. F. DILLINGHAM, JARED G. SMITH.

Territorial Conservation Commission of Hawaii.

#### APPENDIX "A." Report of the Committee on Forests.

Honolulu, Hawaii, Nov. 14, 1908. For a clear understanding of the forest situation in Hawaii it is necessary that one be acquainted with the conditions of topography and local elimate. Lying in the belt of the northeast trade winds and being mountainous, it follows that the Hawaiian Islands have a climate characterized by contrasts. On the windward slopes of the mountains is an area of high precipitation; in the leeward districts scant rainfall, even approaching aridity, is the rule. These facts, coupled with the remarkable porosity of the soil, due to its volcanic origin, have a koa and ohia lehua. Both are heavy,

There are two main classes of forest in Hawaii, Both are of economic under the name "Hawaiian mahogthe water needed for irrigation, power development and domestic supply, the are as a rule situated on the moist, cents to cover postage, and we will send you a fion forests" in that their main value about to be made. No accurate estiment of the law

now the desired data are only to be commercial forests, are found in the had from individuals and corporations. districts where, because of the ab-There is no impropriety in the making sence of running streams, watershed public of the greater part of these data, protection does not figure. The forests nor are the corporations who have them of the first class are by long odds the unwilling to let them be so used. If most important, for in Hawaii the rethere were a Territorial Statistician to lation between sustained stream flow attend to the collection of these and and a watershed protected by a forest

nany subjects which it now takes | Hawaii is a country essentially deweeks of labor to obtain would be pendent on agriculture. The main crop is sugar cane. On more than half of the fifty-four plantations irriagtion is essential for successful cultivation, for although the soil in the leeward districts is rich it requires water to be made commercially productive. Water is also needed on the non-irrigated plantations for the development of power for the fluming of cane. The important part that irrigation plays in In certain of the leeward districts, conservation and more systematic use Hawaii may perhaps be made more apparent by the statement that over fifteen million dollars has been expended, wholly by private enterprise, in de-To this end the Commission makes veloping the irrigation systems that supply water to the cane fields of the irrigated plantations.

The importance of the forest is generally recognized in Hawaii and has of not less than \$5000 per year for a favor of forestry. This finds expression in a Territorial Forest Service charged with the creation and administration of forest reserves and with the prosecution of other forest work. Following the usage customary in During the past five years under a definite forest policy systematically followed, sixteen forest reserves have been set apart, with an aggregate total Lands.-Outside of the lands now the expenditure of an equal sum by the area of 444,116 acres. Of this area, under cultivation and those that should Federal government. Such a survey 273,912 acres, or 61 per cent., is land belonging to the Territorial Government. The other 39 per cent. is in private ownership, but for the most part the owners of the lands, fully ably be made of high productive value. of potentially agricultural land that aware of the benefits of forest protec-This class of land is now used princi- require irrigation for successful devel- tion, cooperate actively with the Territorial Government in the management of the forest reserves.

There are three main types of forest in Hawaii, the koa and ohia forest, ceptible of reclamation for some more the proper departmental authorities in lying between the elevations of two and six thousand feer; the mamani forest, a pure stand of another native Hawaiian tree found on the upper slopes of the higher mountains; and the introduced algaroba forest, which occurs at the lower levels on the leeward side of each of the larger is-

The typical Hawaiian forest is of the first type. The forest consists of a dense jungle of trees, high growing shrubs, tree-ferns and climbers, with much undergrowth and a heavy ground cover of ferns and bracken. the land according to the uses to which able accurate information of assistance gether it is a plant community admirably adapted for the conservation of moisture, for preventing erosion and for serving as a reservoir to feed the man who can successfully establish a extension to Hawaii of the soil survey springs and streams that rise within home and build up a self-sustaining in conducted by the Bureau of Soils of the its bounds. The most important trees are ohia lehua (Metrosideros polymorpha) and koa (Acacia koa).

The forest in all the forest Fourth. That in view of the fact is of this type. A recent compilation in Hawaii large tracts of waste land, that the successful development of diver- of the forest areas of the Territory such for example as areas covered by sified industries in Hawaii depends in shows that the koa and ohia forest covers approximately 1,175,000 acres. Of this area it is estimated that of this class of land must always re- tural lands accessible, the importance eventually about three-quarters of main as waste land but portions of it of good roads and other means of in- million acres will be included within forest reserve boundaries, of which about 70 per cent, will be government

Above the level of the koa and ohia forest, on the slope of Mauna Kea (elevation 13,825 feet), on the Island of Hawaii, is found a nearly pure stand of another native Hawaiian tree, mamani (Sophora chrysophylla). This forest occurs in a belt lying between the elevations of 6000 and 8,-500 feet. The area of the mamani forest on Manna Kea is 63,500 acres. Mamani occurs elsewhere in the Territory, but does not at the present time form what may be called forests. It is, however, spreading rapidly so that in future years it will play a much larger part than it does now.

Mamani makes excellent fence posts for which purpose the trees in the upper forest belt are cut for local use. No accurate figures as to the number cut are now available. Otherwise this type of forest is unimportant commer-

The algaroba (Prosopis juliflora) is the mesquite of the Southwest. This tree was introduced into the Islands in 1837. It has now spread so as to cover between fifty thousand and sixty thousand acres below an elevation of 1000 feet in the leeward districts of the larger islands of the group. It is coasts and is also gradually climbing to a higher elevation.

The algaroua forest is the largest single source of fuel supply in the Territory. It is estimated that over 3000 cords are sold annually in Honolulu. The price varies from \$12 to \$14 a cord, delivered.

The algaroba forests are further of the calendar year 1907, the total Hawaii from the mainland thirty mil products for the year were over \$25,-

great porosity of the soil there are no permanently running streams. Here the main value of the forest rests in est fire law similar to that of Cali work and veneering. It is now sold in actually performed, the markets of the American mainland

Won First Place among American Cars, and Second Place in International Light Car Road Race

FTER LEADING THE ENTIRE FIRST HALF of what proved to be the most exciting and most stubbornly fought speed battle in automobile racing history, the Buick Model 10's gasoline tank came loose and because of stops totaling over twenty minutes from this trouble, the Buick lost the 196-mile Savannah race by six minutes.

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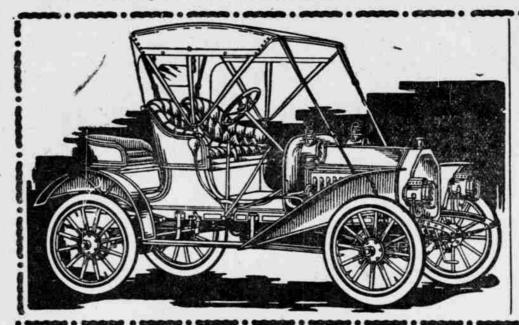
E. A. Hearne of Chicago, driving his own car, a Buikc Model 10, won fourth place and was at all times a contender for the highest honors. The great duel between the leaders was a sight which the spectators will never forget.

The Buick used was a regular stock chassis except that for the sake of securing less clearance, the frame and machinery were under hung. Our regular motor, transmission and axle parts were used. During the entire race, the hood over the engine was not raised.

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made, but the area is sufficient and the stand heavy enough to justify the continuation of lumbering operations for a considerable time.

The fact that none of the native trees in Hawaii furnish construction timber has led to extensive tree planting, both by the Territorial Government and by private interests. This work has been going on for the last thirty years and is constantly increasing in extent and importance. The trees principally planted are several kinds of encalyptus, the Australian spreading rapidly along the Ieeward ironwood and silk oak, and the Japanese cedar. Wood and timber cut from the planted forests in Hawaii is now being used for fence posts, railroad ties, bridge timbers and wagon work. Practically all the construction timber used in Hawaii is imported from Puget Sound and Northern California, mainly redwood and Northwest (Doug-

value because the pods make good In the reports of the U. S. Departstock feed and also because the tree ment of Commerce and Labor it is is one of the important plants locally stated that for the fiscal year ending for bee food. It is estimated that for June 30, 1907, there was imported into amount invested in apiaries and other lion six hundred and three thousand equipment for the manufacture of all feet, board measure, of timber boards garoba honey was \$125,000 and that and planks, valued at \$565,425. For the gross receipts for algaroba honey the same year 17,476,000 shingles, valued at \$39,207, and other unmanufactured lumber to the value of \$116, It has already been shown that the 756 were also imported, making in all primary value of the Hawaiian forest a total of \$721,388 for unmanufactured rests in the influence it exerts on the wood products. The value of manuconservation of water and that the factured wood products imported durcommercial aspect relatively takes sec- ing the same fiscal year was \$214,648 and place. But in the leeward dis- Further comment on the desirability of tricts on the Island of Hawaii are doing even a little towards securing a considerable areas where owing to the local source of supply is unnecessary.

It may perhaps be pertinent in closing this statement to note that a forthe wood and timber that it can be fornia was enacted by the Territorial made to produce. The two Hawaiian Legislature at the Session of 1905. The woods of commercial importance are Territorial Superintendent of Forestry is ex officio Chief Fire Warden, and very direct bearing on the forest situ- close-grained hardwoods. Koa is used provision is made for a corps of disfor interior finish, furniture, cabinet trier fire wardens to be paid for duty

As a matter of fact, plantation manvalue; one because it helps to conserve any. ' Ohia is valuable for railroad agreed to take these positions without ties. The systematic lumbering of this remuneration. The law provides penclass of Hawaiian forest began in Oc- alties in case of damage resulting from tober, 1907, when a contract for nine- the careless or malicious use of fire. other because it produces wood and ty million board feet of ohia railroad Since its enactment there have been timber. The forests of the former class tie material was made between a local few fires of consequence, due in part company and the Santa Fe Railway. to a better public sentiment created by A tie mill with a daily capacity of | the presence of the law on the statute windward slopes of the higher mountains. They are essentially "protection for the first regular shipment of ties is the matter at the time of the enact-

Committee on Forests.

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